

**INFORMATION DISCLOSURE
CITATION FORM FOR
PATENT APPLICATION
(FORM PTO-1449)
(Substitute)**

Docket No.: 881-011446-US (PAR)

Serial No.: 10/642,847

Applicant(s): ABUTALEBI et al.

Filing Date: 8/18/03

Group: 2643

U.S. PATENTS

Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date
<i>W/P</i>	5,267,266 5,329,587	11/30/1993 7/12/1994	Chen Morgan et al.	375 379	14 410	

U.S. PATENT PUBLICATIONS

Initials	Publication No.	Pub. Date	Name	Class	Sub-class	Filing Date

FOREIGN PATENT DOCUMENTS

Initials	Document Number	Date	Country	Name	Translation? Yes/No/n/a

OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)

<i>W/P</i>	Andre Gilloire, et al., "Adaptive Filtering in Subbands with Critical Sampling: Analysis, Experiments, and Application to Acoustic Echo Cancellation", 8084 IEEE Transactions on Signal Processing 40(1992) August, No. 8, New York, pages 1862-1865.
<i>W/P</i>	Wai Pang Ng, et al., "Parallel DAF Measurement Device (PDMD) for Non-Intrusive Whitening of Speech", 2001 IEEE International Conference on Communications, New York, vol. 1 of 10, 11 June 2001, pages 1052-1056.
<i>W/P</i>	Q.G., Liu, et al., "On The Use Of A Modified Fast Affine Projection Algorithm In Subbands For Acoustic Echo Cancellation", Proc. IEEE 1996 Digital Signal Processing Workshop, 1 September 1996, pages 354-357.
<i>W/P</i>	T. Gansler, et al., "Double-Talk Robust Fast Converging Algorithms For Network Echo Cancellation", Applications of Signal Processing to Audio and Acoustics, 1999 IEEE Workshop, New Paltz, New York, 17-20 Oct. 1999, pages 215-218.
<i>W/P</i>	M.R. Petraglia, et al., "Performance Comparisons Of Two Adaptive Subband Structures", Circuits and Systems, 1995. Proceedings of the 38 th Midwest Symposium, Rio De Janeiro, Brazil, 13-16 Aug. 1995, pages 235-238.
<i>W/P</i>	Ozeki Kazuhiko et al, "An Adaptive Filtering Algorithm Using An Orthogonal Projection To An Affine Subspace And Its Properties", electronics and Communications in Japan, New York, vol. 67-A, no. 5, 1 May 1984, pages 19-27.
<i>W/P</i>	R.G. Alves, et al., "RLS Algorithm For A New Subband Adaptive Structure With Critical Sampling", Telecommunications Symposium, 1998, New York, 9 August 1998, pages 442-447.
<i>W/P</i>	K. Nishikawa et al., "Multirate Repeating Method For Alias Free Subband Adaptive Filters", IEICE Transactions on fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronics Information and Comm., Eng., Tokyo, Japan, vol. E85-A, no. 4, April 2002, pages 776-783.

Examiner's Signature: *Robert J. ...*

Date Considered: 9-11-07

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WJ	5,329,587	7/12/94	Morgan et al.	379	410	3/12/93
WJ	5,267,266	11/30/93	Chen	375	14	5/11/92
WJ	6,240,192	5/29/01	Brennan et al.	381	314	4/16/98
WJ	6,236,731	5/22/01	Brennan et al.	381	316	4/16/98

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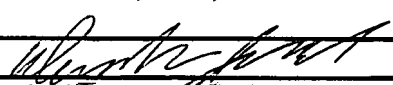
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WJ	"Multirate Repeating Method for Alias Free Subband Adaptive Filters", Nishikawa, et al., IEICE TRANS. FUNDAMENTALS, VOL. E85-A, NO. 4 APRIL 2002, page 776-783
WJ	"Adaptive Filtering in Subbands with Critical Sampling: Analysis, Experiments, and Application to Acoustic Echo Cancellation", Gilloire, et al., IEEE TRANSACTIONS ON SIGNAL PROCESSING, VOL. 40, No. 8, August 1992, page 1862-1875
WJ	"Parallel DAF Measurement Device (PDMD) for Non-Intrusive Whitening of Speech", Wai Pang Ng, et al., page 1052-1056
WJ	"On the Use of A Modified Fast Affine Projection Algorithm in Subbands for Acoustic Echo Cancellation", Q. G. Liu, et al., INRS-Telecommunications, Proc. 1996 IEEE Digital Signal Processing Workshop, pages 354-357
WJ	"Double-Talk Robust Fast Converging Algorithms For Network Echo Cancellation", Tomas Gansler, et al., Proc. 1999 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, New York, Oct. 17-20, 1999, pages 215-218
WJ	"Performance Comparisons of Two Adaptive Subband Structures", Mariane R. Petraglia, et al., 1996 IEEE, pages 235-238
WJ	"An Adaptive Filtering Algorithm Using an Orthogonal Projection to an Affine Subspace and its Properties", Kazuhiko Ozeki, et al., Electronics and Communications in Japan, Vol. 67-A, No. 5, 1984, pages 19-27

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w/	"RLS Algorithm for a New Subband Adaptive Structure with Critical Sampling", R.G. Alves, et al., 1998 IEEE, pages 442-447					
w/	"Sub-band Adaptive Signal Processing in an Oversampled Filterbank", pages 1-15					
w/	"Highly Oversampled Subband Adaptive Filters for Noise Cancellation on a Low-Resource DSP System", King Tam, et al., pages 1-4					
w/	"A Set of Algorithms Linking NLMS and Block RLS Algorithms", Mohsen Montazeri, et al., IEEE Transactions on Signal Processing, Vol. 43, No. 2, February 1995, pages 444-453					
w/	"Robust Fast Affine Projection Algorithm for Acoustic Echo Cancellation", Ville Myllyla, Darmstadt University of Technology, Institute of Communication Technology, pages 1-4					
w/	"Polyphase Analysis of Subband Adaptive Filters", Stephan Weiss, et al., pages 1-5					
w/	"On Adaptive Filtering in Oversampled Subbands", Stephan Weib, 1998, pages 1-213					
w/	"Frequency-Domain and Multirate Adaptive Filtering", John J. Shynk, IEEE SP Magazine, January 1992, pages 14-37					
w/	"Slow Asymptotic Convergence of LMS Acoustic Echo Cancelers", Dennis R. Morgan, IEEE Transactions on Speech and Audio Processing, Vol. 3, No. 2, March 1995, pages 126-136					
w/	ISCAS '98, Proceedings of the IEEE 1998 International Symposium on Circuits and Systems, IEEE Catalog Number: 98CH36187, "A Flexible Filterbank Structure For Extensive Signal Manipulations in Digital Hearing Aids", Robert Brennan, pages VI-569 - VI-572					
w/	"Adaptive Noise Cancelling: Principles and Applications", Bernard Widrow, et al., Proceedings of the IEEE, Vol. 63, No. 12, December 1975, pages 1692 - 1716					
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w/	"A Flexible Filterbank Structure for Extensive Signal Manipulations in Digital Hearing Aids", Robert Brennan, et al., 1998 IEEE, pages VI-569 – VI-572					
w/	"Performance Analysis of Adaptive Filter Structures Based on Subband Decomposition", Mariane R. Petraglia, et al., 1993 IEEE, pages 60-63					
w/	"Multirate Digital Filters, Filter Banks, Polyphase Networks, and Applications: A Tutorial", P.P. Vaidyanathan, 8078 Proceedings of the IEEE 78(1990) January, No. 1, New York, US, pages 56-93					
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